

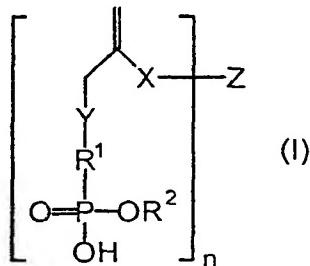
In the Abstract:

Replace the Abstract with the following section:

Abstract

Hydrolysis-stable and polymerizable acrylophosphonic acid with the general formula

*A2* (I)



which is particularly suitable as a component of dental materials is disclosed.

In the Claims:

Please replace pending claims 2-11 with amended claims 2-11 as follows:

*A3* 2. (Amended) Acrylophosphonic acid according to claim 1, wherein the variables of formula (I) have the following meanings independently of each other:

$R^1$  = a linear or branched  $C_1$  to  $C_5$  alkylene radical of phenylene;

$R^2$  = hydrogen or a linear  $C_1$  to  $C_3$  alkyl radical;

$Y$  = oxygen or is absent;

$X$  = CN or  $CONR^3$  with

$R^3$  = hydrogen, a linear  $C_1$  to  $C_6$  alkyl radical, a phenyl radical or together with

$Z$  part of a six-membered ring;

$n$  = 1 or 2; and

$Z$  = hydrogen or a linear or branched  $C_1$  to  $C_{10}$  alkyl radical, a phenyl radical or together with  $R^3$  part of a six-membered ring (for  $n$  = 1); or

$Z$  = a linear  $C_1$  to  $C_{10}$  alkylene radical or together with  $R^3$  part of a six-membered ring (for  $n$  = 2).

3. (Amended) Acrylophosphonic acid according to claim 2, wherein the variables of formula (I) have the following meanings independently of each other:

$R^1$  = a linear  $C_1$  to  $C_4$  alkylene radical;

R<sup>2</sup> = hydrogen or a methyl radical;

Y = oxygen;

X = CONR<sup>3</sup>;

R<sup>3</sup> = hydrogen or a linear C<sub>1</sub> to C<sub>5</sub> alkyl radical; and

Z = hydrogen or a linear C<sub>1</sub> to C<sub>6</sub> alkyl radical (for n = 1); or

Z = a linear C<sub>1</sub> to C<sub>5</sub> alkylene radical (for n = 2).

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4. (Amended) Acrylophosphonic acid according to claim 1, wherein the radicals R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and/or Y are unsubstituted.

5. (Amended) Acrylophosphonic acid according to claim 1, wherein the radical Z is unsubstituted or is substituted by =O, =S, =NR<sup>2</sup> or -NR<sup>3</sup>-CO-C(=CH<sub>2</sub>)CH<sub>2</sub>-Y-R<sup>1</sup>-PO(OH)<sub>2</sub>.

6. (Amended) Acrylophosphonic acid according to claim 1, wherein said acrylophosphonic acid is a component of an adhesive, of a polymer, of a composite, of a cement, of a molded article or a dental material.

7. (Amended) Acrylophosphonic acid according to claim 6, wherein the dental material is a dental adhesive, a fixing cement or a filling composite.

8. (Amended) Acrylophosphonic acid according to claim 6, wherein the acrylophosphonic acid is present in at least partially polymerized form.

9. (Amended) Dental material containing an acrylophosphonic acid according to claim 1.

10. (Amended) Dental material according to claim 9, containing the acrylophosphonic acid in at least partially polymerized form.

11. (Amended) Polymers and copolymers obtained by polymerization or copolymerization of an acrylophosphonic acid according to claim 1.